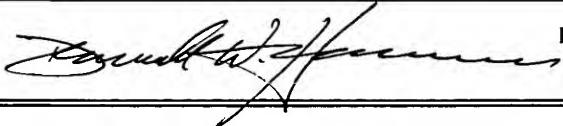


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| U.S. DEPARTMENT OF COMMERCE, PATENT AND TRADEMARK OFFICE | | DATE: January 3, 2006 |
| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371 | | U.S. APPLN. NO. (if known) 10/563041 |
| INTERNATIONAL APPLICATION NO.: PCT/JP04/09653 | INTERNATIONAL FILING DATE: July 7, 2004 | PRIORITY DATE CLAIMED: July 7, 2003 |
| TITLE OF INVENTION: CRYSTALLINE POLYMER EXHIBITING SOLID PHASE TRANSITION PHENOMENON AND USE THEREOF | | |
| APPLICANT(S) FOR DO/EO/US: Ryo KONISHI, Yoichi OKUBO, Kenji FUKUNAGA and Tadatoshi ARIDOMI | | |
| Applicant hereby submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | |
| <p>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 USC 371(f)) at any time rather than delay examination until the expiration of the time limit set in 35 USC 371(b) and PCT Articles 22 and 39(1).</p> <p>4. <input checked="" type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)):</p> <ul style="list-style-type: none"> a. <input checked="" type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> has been transmitted by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US) <p>6. <input checked="" type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)).</p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))</p> <ul style="list-style-type: none"> a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> have been transmitted by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. <p>8. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input checked="" type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). (7 Sheets)</p> | | |
| ITEMS 11. TO 16. BELOW CONCERN OTHER DOCUMENT(S) OR INFORMATION INCLUDED: | | |
| <p>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98 together with PTO-1449, 8 references and International Search Report.</p> <p>12. <input checked="" type="checkbox"/> a. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. <input checked="" type="checkbox"/> b. ASSIGNEE(s) NAME(s) AND ADDRESS <u>UBE INDUSTRIES, LTD. Ube-shi, Japan</u> Please publish the assignee data with the application.</p> <p>13. <input checked="" type="checkbox"/> A FIRST preliminary amendment. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment</p> <p>14. <input type="checkbox"/> A substitute specification.</p> <p>15. <input type="checkbox"/> A change of power of attorney and/or address letter.</p> <p>16. <input checked="" type="checkbox"/> Other items or information: 7 Sheets of Drawings.</p> | | |

| U.S. APPLICATION NO. (if known) 107563041 | INTERNATIONAL APPLICATION NO. PCT/JP04/09653 | DATE: January 3, 2006 | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|------------------------------|--------------|--------------|---|-----------|------------|------------|-------------|------------|---|------------------------------|--|--|--|-----------------------------|--|--|--------------------------------------|------------------|--|--|
| 17. <input checked="" type="checkbox"/> The following fees are submitted: | | <u>CALCULATIONS</u> | <u>PTO USE ONLY</u> | | | | | | | | | | | | | | | | | | | | |
| Basic National Fee (37 CFR 1.492(a)(1)-(5): \$300.00 | | \$ 300.00 | | | | | | | | | | | | | | | | | | | | | |
| Search Fee - all other situations \$500.00 | | | | | | | | | | | | | | | | | | | | | | | |
| National Stage Search Fee - U.S. was the ISA. \$100.00 | | | | | | | | | | | | | | | | | | | | | | | |
| National Stage Search Fee - search report prepared and provided to USPTO. \$400.00 | | \$ 400.00 | | | | | | | | | | | | | | | | | | | | | |
| Examination Fee - all other situations \$200.00 | | \$ 200.00 | | | | | | | | | | | | | | | | | | | | | |
| National Stage Examination Fee - U.S. was IPEA and, all claims satisfy PCT Article 33(1)-(4). \$100.00 | | | | | | | | | | | | | | | | | | | | | | | |
| ENTER APPROPRIATE BASIC FEE AMOUNT = | | \$ 900.00 | | | | | | | | | | | | | | | | | | | | | |
| <p>— Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). the fee is \$250.00 for each additional 50 sheets of paper or fraction thereof.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Total Sheets</th> <th>Extra sheets</th> <th>Number of each additional 50 or fraction thereof (round up to a whole number)</th> <th>RATE</th> </tr> </thead> <tbody> <tr> <td>41 - 100 =</td> <td>/ 50 =</td> <td></td> <td>x \$250.00</td> </tr> </tbody> </table> | | | | Total Sheets | Extra sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE | 41 - 100 = | / 50 = | | x \$250.00 | | | | | | | | | | | | |
| Total Sheets | Extra sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE | | | | | | | | | | | | | | | | | | | | |
| 41 - 100 = | / 50 = | | x \$250.00 | | | | | | | | | | | | | | | | | | | | |
| Surcharge of \$130.00 for furnishing the oath or declaration later than <u> 20</u> <u> 30</u> months from the earliest claimed priority date (37 CFR 1.492(e)). | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CLAIMS</th> <th>NUMBER FILED</th> <th>NUMBER EXTRA</th> <th>RATE</th> </tr> </thead> <tbody> <tr> <td>TOTAL</td> <td>20 - 20 =</td> <td></td> <td>X \$ 50.00</td> </tr> <tr> <td>INDEPENDENT</td> <td>5 - 3 =</td> <td>2</td> <td>X \$ 200.00 \$ 400.00</td> </tr> <tr> <td colspan="2">Multiple dependent claims(s) (if applicable)</td> <td></td> <td>+ \$360.00 \$ 360.00</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: right;">TOTAL OF ABOVE CALCULATIONS =</td> <td>\$1660.00</td> </tr> </tbody> </table> | | CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | TOTAL | 20 - 20 = | | X \$ 50.00 | INDEPENDENT | 5 - 3 = | 2 | X \$ 200.00 \$ 400.00 | Multiple dependent claims(s) (if applicable) | | | + \$360.00 \$ 360.00 | | | TOTAL OF ABOVE CALCULATIONS = | \$1660.00 | | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | | | | | | | | | | | | | | | | | | | | |
| TOTAL | 20 - 20 = | | X \$ 50.00 | | | | | | | | | | | | | | | | | | | | |
| INDEPENDENT | 5 - 3 = | 2 | X \$ 200.00 \$ 400.00 | | | | | | | | | | | | | | | | | | | | |
| Multiple dependent claims(s) (if applicable) | | | + \$360.00 \$ 360.00 | | | | | | | | | | | | | | | | | | | | |
| | | TOTAL OF ABOVE CALCULATIONS = | \$1660.00 | | | | | | | | | | | | | | | | | | | | |
| Reduction by 1/2 for filing by small entity, if applicable. (Note 37 CFR 1.9, 1.27, 1.28). | | | | | | | | | | | | | | | | | | | | | | | |
| | | SUBTOTAL = | \$1660.00 | | | | | | | | | | | | | | | | | | | | |
| Processing fee of \$130.00 for furnishing the English translation later than <u> 20</u> <u> 30</u> months from the earliest claimed priority date (37 CFR 1.492(f)). + | | | | | | | | | | | | | | | | | | | | | | | |
| | | TOTAL NATIONAL FEE = | \$1660.00 | | | | | | | | | | | | | | | | | | | | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). | | \$ 40.00 | | | | | | | | | | | | | | | | | | | | | |
| | | TOTAL FEES ENCLOSED = | \$1700.00 | | | | | | | | | | | | | | | | | | | | |
| | | Amount to be: <input type="checkbox"/> refunded <input type="checkbox"/> charged | \$ _____ | | | | | | | | | | | | | | | | | | | | |

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| U.S. APPLICATION NO. (if known) 107563041 | INTERNATIONAL APPLICATION NO. PCT/JP04/09653 | DATE: January 3, 2006 |
| <p>a. <input checked="" type="checkbox"/> A check in the amount of <u>\$1700.00</u> to cover the above fees is enclosed. (\$300.00 for basic fee, \$400.00 for search fee, \$200.00 for examination fee, \$400.00 for extra independent claims, \$360.00 for multiple dependent claims and \$40.00 for assignment.) (This paper is filed in triplicate)</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. 01-2340 in the amount of \$____ to cover the above fees. (A duplicate copy of this sheet is enclosed.)</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 01-2340.</p> <p>NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed to request that the application be restored to pending status.</p> | | |

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| Send All Correspondence To: |  23850 PATENT TRADEMARK OFFICE |
| Armstrong, Kratz, Quintos, Hanson & Brooks, LLP Suite 1000, 1725 K Street, N.W. Washington, D. C. 20006 Tel: (202) 659-2930 Fax: (202) 887-0357 | |
| Typed or Printed Name Donald W. Hanson | Reg. No. 27,133 |
| Signature  | Date: January 3, 2006 |

DWH/jaz